

ABSTRACT

Cast aluminium alloys comprising 1.0 - 8.0 % in weight magnesium (Mg), > 1.0 - 4.0 % in weight silicon (Si), 0.01 - < 0.5 % in weight scandium (Sc), 0.005 - 0.2 % in weight titanium (Ti), 0 - 0.5 % in weight of at least one element or selected from the group consisting of zirconium (Zr), hafnium (Hf), molybdenum (Mo), terbium (Tb), niobium (Nb), gadolinium (Gd), erbium (Er) and vanadium (V), 0 - 0.8 % in weight manganese (Mn), 0 - 0.3 % in weight chromium (Cr), 0 - 1.0 % in weight copper (Cu), 0 - 0.1 % in weight zinc (Zn), 0 - 0.6 % in weight iron (Fe), 0 - 0.004 % in weight beryllium (Be), and the remainder of aluminium with further impurities to an individual maximum of 0.1 % in weight and totally maximally 0.5 % in weight.